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(54) PRODUCTION OF METALLIC TITANIUM

(57)Abstract:

PURPOSE: To improve the velocity and efficiency of the reaction at the time of reducing titanium tetrachloride with a reducing metal by setting the temp. in a reactor at the melting point or above of the reducer, etc., and the pressure in the reactor at the vapor pressure or above of reducing metallic chloride.

CONSTITUTION: The temp. in the reactor 2 charged with reducing metallic chloride is retained at the melting point or above of the reducers metal and metallic chloride. The pressure in the reactor 2 is furthermore retained at the vapor pressure or above corresponding to the above-mentioned temp. of said chloride. Gaseous titanium tetrachloride is poured into the reactor from a feed tube 12 equipped on the lower side of a molten bath of said chloride. The reducing metal is then fed from a feed tube 13 equipped on the upper side of said molten bath to bring titanium tetrachloride into reaction with the reducing metal. Generated metallic titanium is then continuously extracted.

